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SIR,

*Whitehall Place, 31st March, 1840.*

I EXCEEDINGLY regret that a previous engagement prevents my attending the Society of Arts on Thursday next. I have no hesitation in giving my opinion upon the expanding mandrel of Mr. Hick, jun.; namely, that I think it a very ingenious and useful invention, and deserving the patronage of the Society of Arts; and, in conformity with this opinion, I have requested Mr. Hick to send me several sizes of these mandrels for the purpose of adopting them in my establishment.

I am, Sir, &amp;c. &amp;c.

*W. A. GRAHAM, Esq.*

GEORGE RENNIE.

*Secretary, &c. &c.*


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No. XII.

## SCREW BENCH-HOOK FOR CARPENTERS.

*The SILVER ISIS MEDAL was presented to Mr. F. E. FRANKLIN, Purton, Wiltshire, for his Screw Bench-Hook for Carpenters; a Model of which has been placed in the Society's Repository.*

SIR,

*Purton, 10th February, 1840.*

HAVING experienced great inconvenience from the old stop used by carpenters in their bench, I beg leave to offer, for the inspection of the Society, one in which the stop is regulated by means of a screw, thereby avoiding

the unpleasant hammering which is frequently injurious to work lying on the bench in an unfinished state, and at the same time adjusting it to a greater nicety.

I am, Sir, &c. &c.

F. E. FRANKLIN.

W. A. GRAHAM, Esq.

Secretary, &c. &c.

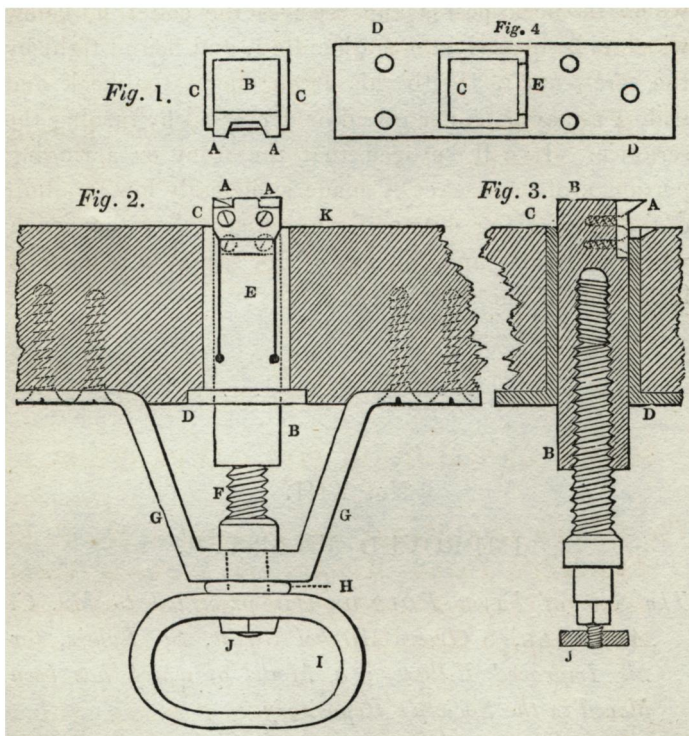


Fig. 1 is a top view of the hook A A, B, and socket C.

Fig. 2 is a front view, the bench only in section.

Fig. 3, a side view in section.

Fig. 4, top view of the socket C and its plate D D.

A A the hooks screwed to the square iron slide B B, this is fitted to the socket C D, in which it can slide; the front part E of the socket is made to spring against it, so as to allow it to slide freely without shake. The socket C is fitted tight into the bench K from the underside, having a flanch D to stop it, by which it is screwed to the bench; the slide B is hollow and receives the screw F; the shoulder of the screw abuts against the iron strap G G, through which its neck passes and receives the collet H, below which it is squared into the handle I, and bound tight by the screw-nut J. With this arrangement the hook and slide A B may be either raised or depressed by turning the screw F. It will be seen that the front or springing portion E of the socket is made sufficiently low to admit of the hook being drawn down rather below the bench when necessary, and the top of the socket C is made a little short of the bench surface.

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No. XIII.

IMPROVED FILLISTER.

*The Sum of FIVE POUNDS was presented to Mr. C. ARUNDLE, 8 Great Mitchel Street, St. Luke's, for his Improved Fillister; a Model of which has been placed in the Society's Repository.*

8 Great Mitchel Street,  
St. Luke's.

GENTLEMEN,

IN the side fillister, which I wish to submit to your notice, I have placed the iron the reversed skew, by which means